

UNIDEN LONG RANGE RADAR/ LASER DETECTOR

DFR1



DISCLAIMER: Radar detectors are illegal in some states. Some states prohibit mounting any object on your windshield. Check applicable law in your state and any state in which you use the product to verify that using and mounting a radar detector is legal. Uniden radar detectors are not manufactured and/or sold with the intent to be used for illegal purposes. Drive safely and exercise caution while using this product. Do not change settings of the product while driving. Uniden expects consumer's use of these products to be in compliance with all local, state and federal law. Uniden expressly disclaims any liability arising out of or related to your use of this product.

FEATURES

- X, K, and Ka band alarms
- Laser alarms
- Highway/City/City 1 modes
- Invisible to VG-2 and Spectre I/IV/IV+ radar detectors
- Mute alarm audio
- Memory feature saves user's last settings (except MUTE) when the unit is powered down/disconnected from power.

WHAT'S IN THE BOX

- DFR1 radar detector
- Straight 12V DC Power Cord
- Windshield Mounting Bracket
- Hook and loop fastener tape
- Spare fuse for DC Power Cord

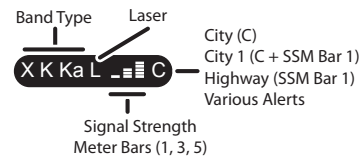
DFR1 HARDWARE



| NO. | NAME | WHAT IT DOES |
|-----|-----------------------|---|
| 1 | Eagle Eye | 360° Laser detection |
| 2 | Power Jack | Plugs into power source. |
| 3 | Eject | Releases DFR1 from mounting hardware. |
| 4 | DIM | Dims the display brightness. |
| 5 | MUTE | Turns off the sound. |
| 6 | CITY | Sets the unit to CITY, CITY I, or HIGHWAY mode. |
| 7 | Power/Volume Dial | Turns unit on and adjusts volume. |
| 8 | Mounting Bracket Slot | The mounting bracket fits into this slot. |

LED DISPLAY

When a signal is detected, the display will show the band type, City/Highway setting, and signal strength. If the DFR1 detects a laser, the display shows L. (Laser is used in close proximity and has no signal associated with it.)



The Signal Strength Meter bars indicate the following:

| SS METER BAR | BAR STATUS | MEANING |
|--------------|----------------------------------|-------------|
| SSM Bar 1 | Solid | SSM Level 1 |
| SSM Bar 3 | Solid SSM Bar 1 + Blinking Bar 3 | SSM Level 2 |
| | Solid SSM Bar 1 and Bar 3 | SSM Level 3 |

| SS METER BAR | BAR STATUS | MEANING |
|--------------|---|-------------|
| SSM Bar 5 | Solid SSM Bars 1 and 3 + Blinking Bar 5 | SSM Level 4 |
| | Solid SSM Bars 1, 3, and 5 | SSM Level 5 |

INSTALLATION AND TURN UP

Install the DFR1 on the front windshield or on the dashboard. For best performance, position the detector as low as possible in the center of the front windshield. Be sure the unit's view of the road, either to the front or the back, is clear.

INSTALLATION

WINDSHIELD

1. Clean the windshield and the rubber cups of the mounting bracket. Attach the rubber cups to the bracket.
2. Push the bracket firmly onto the windshield.
3. Slide the unit onto the bracket.
4. Gently adjust the bracket angle if needed.

Do not use the detector to adjust the bracket angle.

5. Plug the power cord into the detector.
6. Plug the cigarette lighter adapter into the vehicle's cigarette lighter.

You can remove the detector by pressing the **Eject** button.

DASHBOARD

1. Place the unit on the dashboard so that it has a clear, level view of the road.

The unit cannot be readjusted after final installation.

2. Remove the backing from one side of the hook and loop fastener tape.
3. Place that fastener tape on the dashboard where you want the unit.

4. Attach the other piece of the fastener tape to the bottom of the unit and attach the unit to the dashboard fastener tape.

You can remove the unit as needed.

5. Plug the power cord into the detector.
6. Plug the cigarette lighter adapter into the vehicle's cigarette lighter.

TURN UP

Once the detector is installed and the car is turned on, turn the volume dial away from you until it clicks. The unit is now turned on.

The LED cycles through the display in this order: X - K - Ka - Laser, then signal strength except for Laser (L).

Once the cycle is complete, the detector turns to standby mode.

| STANDBY MODE | | | | | | |
|--------------|---|---|----|---|---|------|
| Highway | X | K | Ka | L | C | ▬▬▬▬ |
| City | X | K | Ka | L | C | ▬▬▬▬ |

| STANDBY MODE | | | | | | |
|--------------|---|---|----|---|---|------|
| City 1 | X | K | Ka | L | C | ▬▬▬▬ |

DETECTION

The DFR1 detects emissions from radar guns and sounds an audio alert for the driver. The detector determines which band range the signal is from and displays that frequency type on the display (X, K, Ka, or L). The signal strength (1 through 5) also displays as applicable. If there is a specific alert code, that is also displayed.

False signals can come from other devices such as the automatic doors at a supermarket or even another car's cruise control; these devices operate in the same frequency ranges as radar guns.

BANDS

The DFR1 recognizes:





- X Band: This band was the first frequency band assigned to police radar. It operated on a lower frequency (10.525GHz) with a higher power output.
- K Band: This band is the most common frequency used in radar detectors (24.150). Its relatively small wavelength gives it a clocking distance of about 1/4 mile although, depending on the environment, it can detect up to 2 miles.
- Ka Band: Over the years, the Ka band incorporated the Ka-Band, the Ka Wide-Band, and the Ka Super Wide-Band. Most photo radars (also known as stop light cameras) use this band.
- Laser: Police use the laser's narrower light pulses for speed detection as it is more accurate and faster. Laser beams are more detectable after they have bounced off their target and begin to disperse on the return trip.

MODES

The DFR1 operates in three modes:

- Highway. Provides audio and visual alerts any time all bands and laser are detected. Recommended for highway or rural driving. (X, K, Ka Laser)
- City. Provides audio and visual alerts any time all bands and laser are detected. Provides a stronger signal for the X band so it can pick up weaker signals. (X, K, Ka, Laser)
- City I. Similar to City mode, but no X band is detected. (K, Ka, Laser)

| HIGHWAY | | | | | | |
|---------|---|----|---|---|------|------|
| X | K | Ka | L | C | ▬▬▬▬ | ▬▬▬▬ |
| X | K | Ka | L | C | ▬▬▬▬ | ▬▬▬▬ |
| X | K | Ka | L | C | ▬▬▬▬ | ▬▬▬▬ |
| X | K | Ka | L | C | ▬▬▬▬ | ▬▬▬▬ |

| CITY | | | | | CITY 1 |
|------|----------|-----------|----------|---|--|
| X | K | Ka | L | C | C+  |
| X | K | Ka | L | C | C+  |
| X | K | Ka | L | C | C+  |
| X | K | Ka | L | C | C+  |

| BAND | FREQUENCY |
|-------|---------------------|
| X | 10.525 GHz |
| K | 24.150 GHz |
| Ka | 33.400 - 36.000 GHz |
| Laser | 800 nm - 1100 nm |

OPERATION SETUP

After installing your radar detector, you can set it to your own specifications.

- Mute/Auto Mute. When an audio alert sounds, pressing **MUTE** lets you turn off the audio alarm. Press and hold **MUTE** to set Auto Mute to ON to reduce the audio alarm by 50% automatically after 3 seconds during an alert.
- Dim. Change the brightness of the display. (Default - Bright)
- Set City, City I, or Highway
 - City mode delays all X band audio alerts until the signal is at level 2.
 - City I mode does not recognize X band transmissions.
 - Highway mode recognizes all bands and is recommended for highway driving. (Default)

The following table provides an overview of key operations.

| KEY | PRESS TO... | PRESS AND HOLD TO... |
|-------------------|---|---|
| MUTE | Turn alert audio off (1 beep) during alert audio. Mute cancelled 10 seconds after alert ends. | Turn Auto Mute on (1 beeps) and off (2 beeps) during standby. |
| DIM | Change brightness from: BRIGHT (3 beeps) to DIM (1 beeps) to DARK (2 beeps). | NA |
| CITY | Change mode from: HIGHWAY (3 beeps) to CITY (1 beeps) to CITY I (2 beeps). | NA |
| DIM + CITY | NA | Return to factory settings: <ul style="list-style-type: none"> • Highway • Bright • Mute OFF • Auto Mute ON |

MONITORING SPEED

A radar gun transmits radio waves at certain frequencies that bounce off objects and return to the radar gun's receivers. The radar gun then calculates the speed of the object. The DFR1 recognizes the following bands/frequencies used by radar guns:

RADAR DETECTOR DETECTORS (RDD)

Radar detectors are illegal in some states. Law enforcement officers use special equipment to detect signals radiated by radar detectors. If they are in a state where radar detectors are illegal and the officer detects a vehicle using a radar detector, the operator of that vehicle could lose the radar detector and be fined.

The DFR1 is designed to be invisible to signals from the Spectre I, Spectre IV, and VG-2 RDDs.

CARE AND MAINTENANCE

Use common sense and your DFR1 will provide trouble-free service. Please keep the following tips in mind:

- Don't leave your unit on the dashboard during summer months. Interior heat may exceed safe operating levels.
- Do not spray cleaners or other liquids on the unit. Remove the unit when you are using these liquids.
- Do not use abrasive cleansers on the unit's exterior.

TROUBLESHOOTING

| IF... | TRY THIS... |
|---|--|
| No display or audio. | Check the fuse in the plug. Replace if necessary. |
| The unit alarms when the vehicle hits bumps. | Check the connections. Be sure they are all secure. |
| The unit alarms briefly in the same location but no radar source was in view. | There may be a motion sensor or house alarm in use within range. |
| The detector did not alert when a police car was in view. | The officer may not have radar/laser units turned on. |

SPECIFICATIONS

| | |
|----------------|--|
| Receiver Type: | |
| Radar | Double Conversion Superheterodyne Self-Contained Antenna |
| Laser | Pulsed Laser Signal Receiver |
| Frequency: | |
| X | 10.525 GHz |
| K | 24.150 GHz |

| | |
|------------------------|---|
| Ka | 33.400 - 36.000 GHz |
| Laser | 800 nm - 1100 nm |
| Detector Type: | |
| Radar | Scanning Frequency Discriminator |
| Laser | Pulse Width Discriminator |
| Alarm Type | Beep (Detected Band and Signal strength) |
| Antenna Type: | |
| Radar | Linear Polarized E-vector Vertical |
| Laser Front | Convex Condenser Lens |
| Laser Back | Concave Condenser Lens |
| Dimensions | 110.00 mm (D) x 69.00 mm (W) x 29.50 mm (H) |
| Weight | 3.4 oz (95g) |
| Operating Temp. | -4° to +185° F (Radar/Laser) -20° to +85° C (Radar/Laser) |
| Storage Temp. | -22° to +203° F (Radar/Laser) -30° to +95° C (Radar/Laser) |
| Operating Power Source | DC 11.0 to 16.0 V |

FCC/Industry Canada Information

FCC: AMWDFR1

FCC Compliance

This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

IC Compliance

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Looking for dependable radar detectors and accessories? Rely on Uniden for quality and long-lasting products.